Docket No.: 51876P377

PROFILE OF HARD MASK

1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US

Sheet: 1 of 12

FIG. 1A (PRIOR ART)

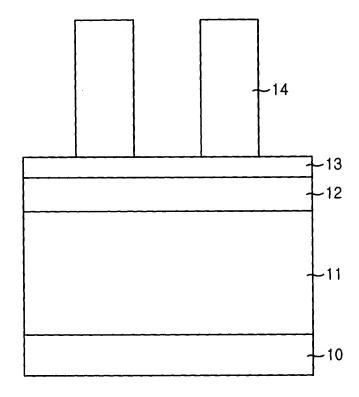
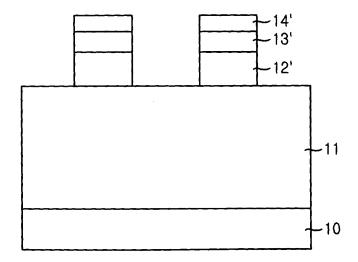
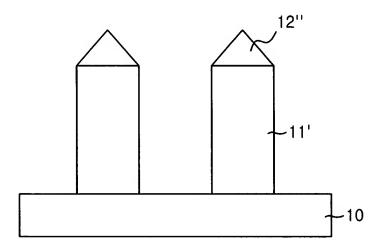


FIG. 1B (PRIOR ART)



PROFILE OF HARD MASK
1st Named Inventor: Sung-Kwon LEE
Express Mail No.: EV339917975US
Sheet: 2 of 12

FIG. 1C (PRIOR ART)



PROFILE OF HARD MASK

1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US Sheet: 3 of 12



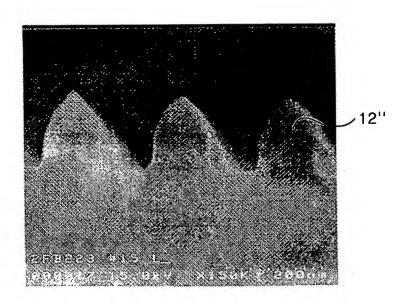
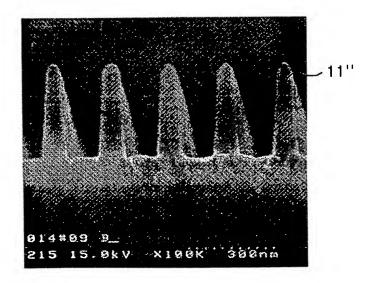
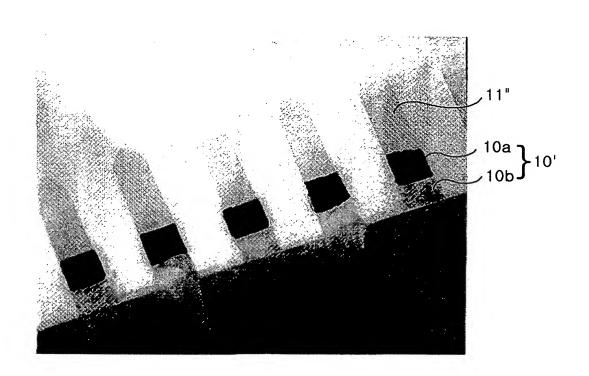


FIG. 3 (PRIOR ART)



Blakely, Sokoloff, Taylor & Zafman LLP (310) 207-3800
Title: METHOD FOR FABRICATING SEMICONDUCTOR DEVICE USING
ARF PHOTOLITHOGRAPHY CAPABLE OF PROTECTING TAPERED
PROFILE OF HARD MASK
1st Named Inventor: Sung-Kwon LEE
Express Mail No.: EV339917975US Docket No.: 51876P377
Sheet: 4 of 12

FIG. 4 (PRIOR ART)



1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US Sheet: 5 of 12

FIG. 5A

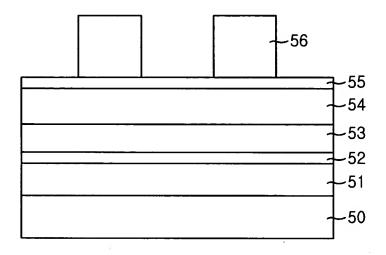
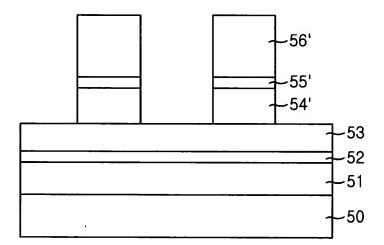


FIG. 5B



PROFILE OF HARD MASK
1st Named Inventor: Sung-Kwon LEE
Express Mail No.: EV339917975US
Sheet: 6 of 12

FIG. 5C

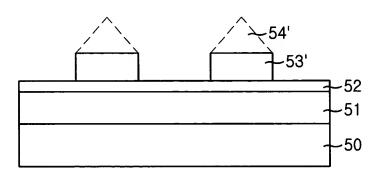
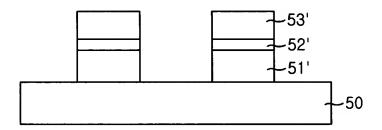


FIG. 5D



1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US Sheet: 7 of 12

FIG. 6A

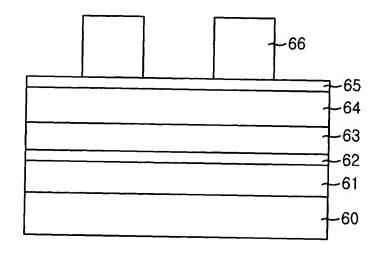
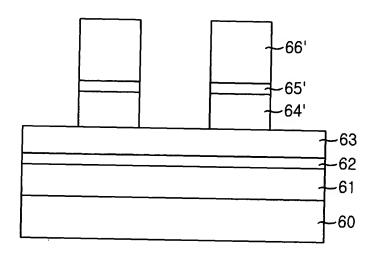


FIG. 6B



PROFILE OF HARD MASK 1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US

Sheet: 8 of 12

Docket No.: 51876P377

FIG. 6C

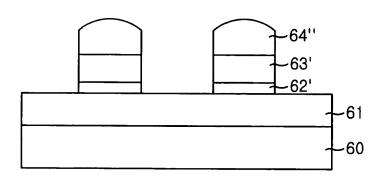
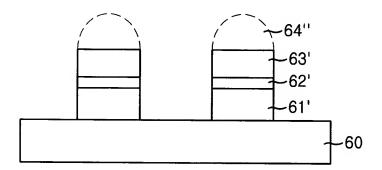


FIG. 6D



PROFILE OF HARD MASK

1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US

Sheet: 9 of 12

FIG. 7A

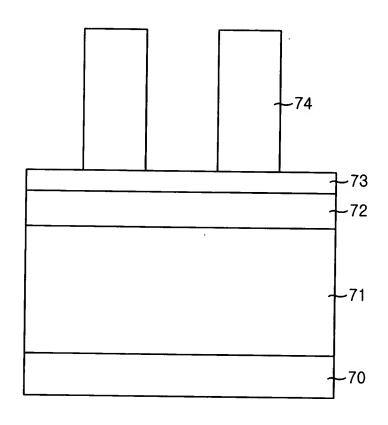
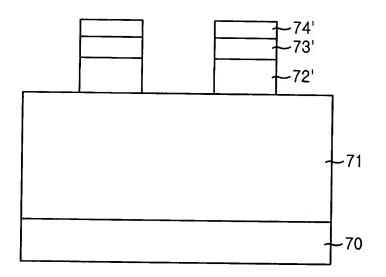


FIG. 7B



1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US Sheet: 10 of 12

FIG. 7C

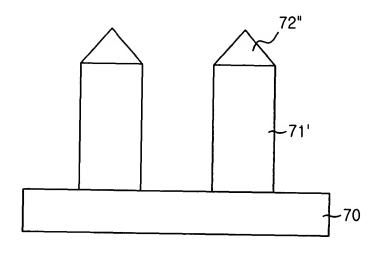
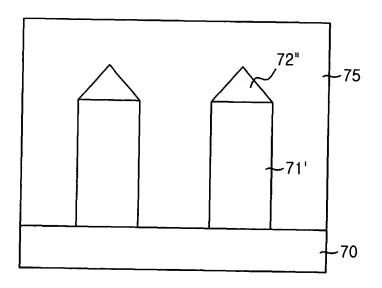
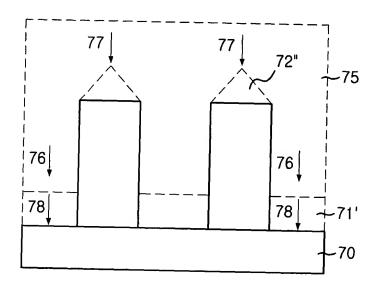


FIG. 7D



1st Named Inventor: Sung-Kwon LEE Express Mail No.: EV339917975US Sheet: 11 of 12

FIG. 7E



OF HARD MASK
1st Named Inventor: Sung-Kwon LEE
Express Mail No.: EV339917975US
Sheet: 12 of 12

FIG. 8

